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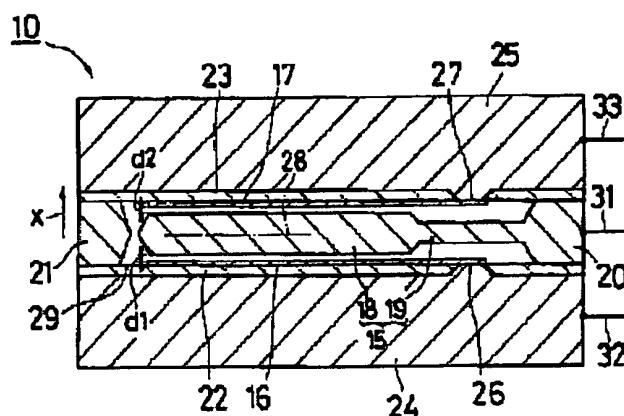
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APPLICANT : OSAKA GAS CO LTD;

INVENTOR : FUJISAWA SHOZO;

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TITLE : INCLINOMETER



**ABSTRACT :** PURPOSE: To provide an inclinometer by which the inclination angle of an object to be measured can be measured with good accuracy and which is small and lightweight.

CONSTITUTION: An inclination sensor 10 is provided with a pendulum 15 which is supported so as to be open-sided and with a pair of electrodes 16, 17 which are arranged so as to be separated from the pendulum 15 in a direction in which the pendulum 15 is displaced back and forth. When the inclination sensor 10 is tilted at an angle  $\theta$ , gravitation F acts on the center of gravity G of the pendulum 15, a component force  $F_1 = F \cdot \sin\theta$  acts in the displacement direction of the pendulum 15, a bending moment is applied to the pendulum 15, and the pendulum 15 is deformed elastically. As a result, an interval d1 is made small, an interval d2 is made large, and a capacitance between the pendulum 15 and the respective electrodes 16, 17 is changed.

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